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Intellectual Property Law

March 22, 2001

Assistant Commissioner For Patents Washington, D. C. 20231

RE: Appellant's Supplement to the Appeal Brief (Our File No. 2821-193)

Dear Sir or Madam:

Please find enclosed documents for submission with the Appellant's Supplement to the Appeal Brief mailed on March 21, 2001. The enclosed documents include highlighted sections, but are otherwise identical to the documents previously supplied with Appellant's Supplement to the Appeal Brief.

Thank you for your attention to this matter. Should you have any questions please don't hesitate to contact us.

Very truly yours,

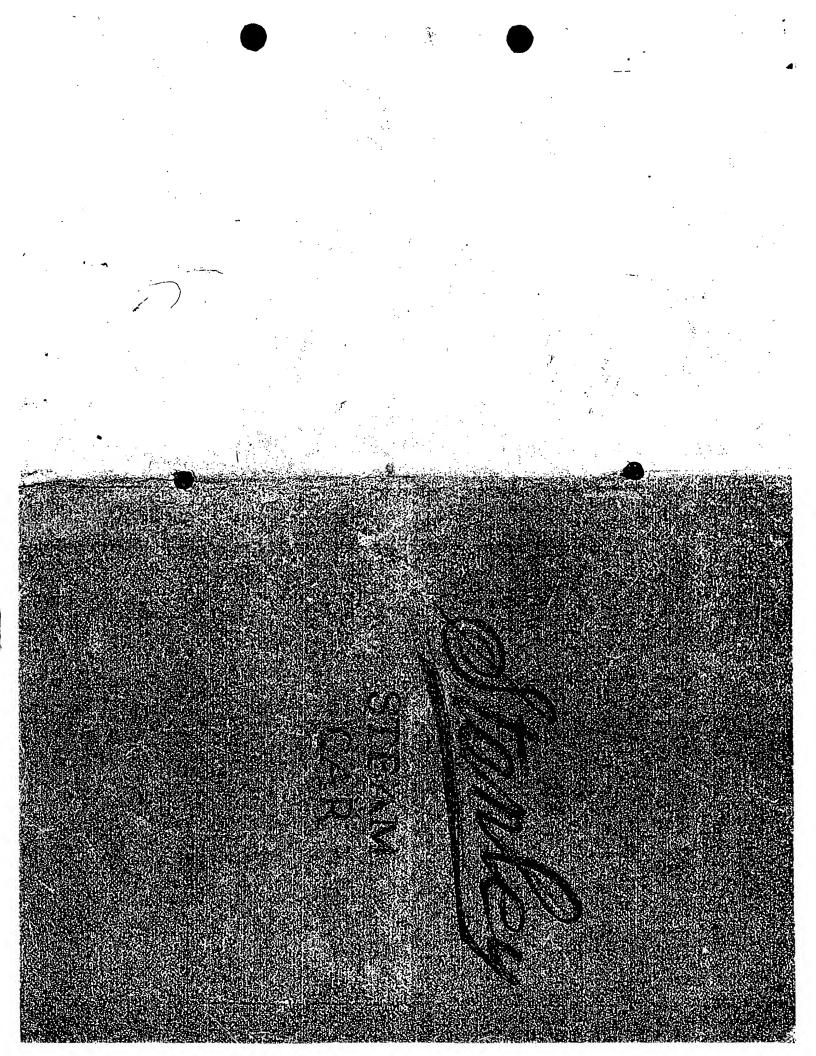
McCormick, Paulding & Huber LLP

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FOREWORD

There is nothing mysterious about a Stanley car. Its wheels, axlea, chassis frame, body, radiator, steering gear, brakes, storage battery and dynamo are similar to other cars. Its power plant and power control are clifferent and are very simple. The power plant consists principally of

A simple two cylinder double acting steam engine, which is attached rigidly to the rear axle, so that the engine and rear axle; in fact, the whole driving nechanism is a unit, attached to the chassis frame at three points.

boilor which supplies steam to the engine.

A licrosene burner which supplies heat to the boiler

A set of tanks and pumps which automatically supply water to the boiler, fiel to the burner, and lubricating oil to the engine cylinders.

A set of nationatic valves which control the supply of water to the boiler and fuel to the burner.

A radiator which condenses the exhaust steam and returns the water to the water tank.

A storage battery which supplies current for light and for starting the pilot light.

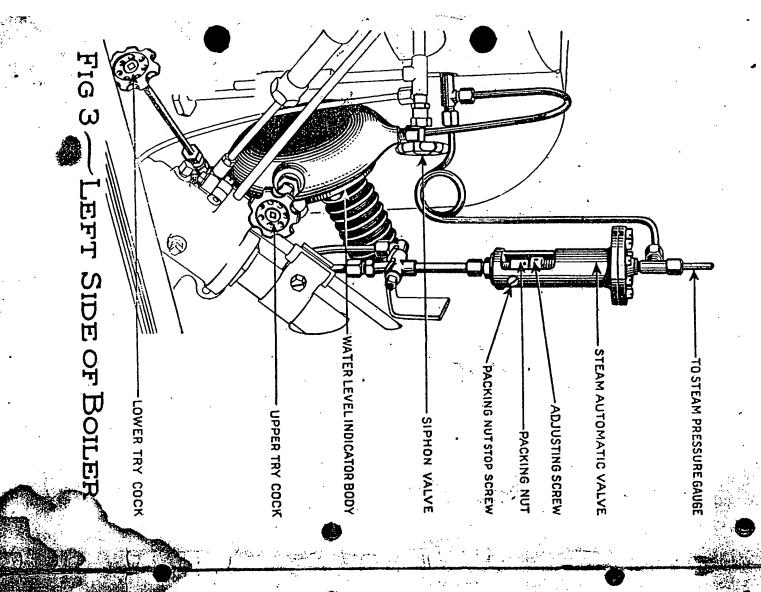
A dynamo which automatically charges the storage battery.

The power control consists of a throttle lever and a reverse pedal.

Mcchanical knowledge is not necessary in order to drive a Stanley car successfully, but a thorough understanding of the car will assist one to get the best results under all conditions.

STANLEY MOTOR CARRIAGE CO.,

NEWTON, MASSACHUSETTS



Article 2: To STEAM UP (Continued)

See Fig. 3

Open the lower try-cock at the bottom of the water-indicaton which is between the boiler and dash on the left side, and see that runs out of it.

If it does, it indicates that the water in the boiler is above this and that is sufficient for steaming up.

More does no harm but will take more time to raise steam.

If no water runs out read Paragraph 3 of Article 4.

the stuffing box. assembling the spring-case portion of the valve, pack With the stem and ball in place, and before

Assemble valve. Use Permatex cement on both adjusting screw. sufficiently to adjust your stuffing box nut and cylinder oil. This will toughen the wrench small end red hot with a torch and quench in degrees to knock off any sharp edges. Then heat the 1/4" on one end. Chamfer each end 1/64" x 45 about 3" long, turned down to 0.175" for a distance of nut. Make a pin wrench from a piece of 1/4" drill rod holes in the adjusting screw and the stulling box Run a #16 drill (0.177" dia.) through the six

then install the remaining ten screws. body together and screw the two screws finger tight; diaphragms in place, Bring the top cap and the through the top cap and gasket. Then put the two Insert two fillister-head screws (180 degrees apart) the twelve hole surface of the base, or top cap. sides of the paper gasket. Place the gasket against

With the locknut (pc. #437) backed off as far as press the spring about three complete turns. against the top spring button (pc. #440), and comassembly, bring the adjusting screw (pc. #434) up screw driver and a 6" adjustable wrench. After tighten the twelve screws evenly, using a heavy-duty Holding the body in a vise (using copper Jaws),

3/4's of a turn and set the lock nut (pc. #437) against ball firmly on the seat. Then, back off the assembly (pc. #s 436, 446, 447, and 448) until the stem holds the stuffing box, nipple, double head, and stub cap it will go, tighten the assembly consisting of the

the body (pc. #431).

Using high pressure air, set the valve to shut off the end of the set screw and the stuffing box nut. screw, making sure that there is clearance between proper tension. Tighten the stuffing box nut set Check the stuffing-box nut and adjust for

differential of no more than 25 psi. sponld make this valve work with a maximum psi. Using the heaviest duty spring in the body at the desired pressure, usually between 500 and 600

valve should give trouble-free service for many years. If these instructions are followed carefully, this

into just one stem the diameter of the valve stem. the valve stem (pc. #'s 445 and 444) are combined 445 Valve stem tip. Many times the valve stem tip and

with either one side outlet or two (pc. #447). and valve ball (pc. #445B), was available 442 Single head. This litting, which contains the seat

(pc. #448). (bc. #'s 447 or 447A) by means of the stub cap within the single head (pc. #442) or the double head parts list calls for a strainer which is retained 449 Wire gauge strainer. Although seldom found, the

By Ole B. Vikre Steam Automatic Repair of the Stanley

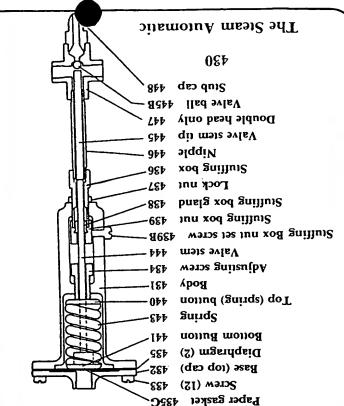
conversely to the fuel automatic. diaphragm operated valve, although it works June 1986, Volume V, Number 1) is a simple fuel automatic, pc. #460, see STEAM TALK article The steam automatic valve, pc. #430 (like the

1/4"-20-NC fillister-head screws 9/16" long. held between these two surfaces by means of twelve peryllium copper diaphragms and a paper gasket are perfectly planed surfaces. Two 0.014" annealed surfaces by taking a light skim-chip to provide and 447). Then machine the two twelve-hole the body, top cap, and double cap (pc. #'s 431, 432 Clean the parts with pilot fuel, and wire-brush

Polish the stem, particularly in way of the R" drill to clean the shelf around the seat. bright all around. Then, use a flat-bottomed "Letter degrees included angle, just skim the seat until Using a "Letter R" drill (0.339" dia.) ground to 90 lathe with a 5/8"-20-NS thread to receive the head. #446). This is done by turning an adapter in your (pc. #'s 442 or 447), after removing the nippel (pc. Machine the seat in the double (or single) head

box (pc.#s 447 (or 442), 446 and 436). Screw this Assemble the double head, nipple, and stuffing packing, using Crocus cloth as the final abrasive.

alignment and run true. seat and ascertain that these three parts are in perfect assembly onto the same adapter used to machine the



Steam Talk

Stanley Fuel Automatics: A Modification

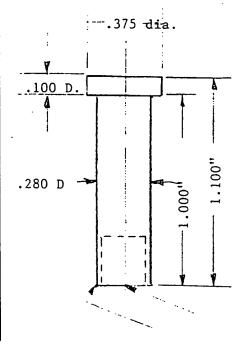
by Ole B. Vikre, Jr.

I first heard about this "fix" several years ago when I asked Ole's son-in-law, Brent Campbell, why he didn't bother to shut his pressure retaining valve when he parked his car for any length. How nice not to lose all your fuel pressure because you forget to shut it at the end of the day! I've been asking Ole for this ever since, so I'm especially happy to present this article now.

The Stanley fuel automatic, part #460 in the Stanley parts catalogue, has been manufactured in three distinct styles:

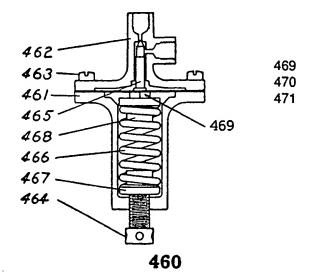
- A. Exactly as shown in the parts catalogue as #460 see drawing;
- B. With the lower spring seat, parts catalogue #468, sitting directly on the diaphragm without the hex nut, #469;
- C. The style used in the condensing cars, which has an additional part, shown in the

PIECE #1



Cavity 1/4" d. x 1/4" deep for Nylatron insert.

Swage after insertion of Nylatron to retain. Insert size 1/4" d. x 5/16" long.



article as piece #2, with a 7/16"-20 thread, made completely of 5/8" hex brass. It originally had a hardened steel insert that served as a seat, a spring-loaded needle also made from steel, and used a dimpled diaphragm. The needle, parts catalogue #465, and its mating seat, which was pressed into the 7/16"-20 end of piece #2, were both hardened steel. These pieces soon rusted and otherwise deteriorated, causing leakage.

This "new" modification uses one each of pieces #1, #2 and #3, as shown, plus a gasket and diaphragm (without a hole). It also employs a Nylatron insert (also called molybdenum-filled nylon) 1/4" in diameter x 5/16" long. This insert is placed into the end of piece #1 and swaged in place. After swaging, the end is machined square with the axis of piece #1.

If your fuel automatic is exactly like #460 in the parts catalogue, the area in the way of the pin (or needle) will have to be carefully enlarged to accommodate pieces #1 and #3, finishing the bottom face with a flat-bottomed drill a few thousandths of an inch larger than the o.d. of your small spring, piece #3 (.422-.425").

The next step is to make up a sleeve from scrap brass the same i.d. and o.d. as the small spring, piece #3, but only 7/8" in length. Using this sleeve in place of the small spring, install it along with piece #1 into the valve cavity of parts catalogue #462 which you previously machined with the flat-bottomed drill.

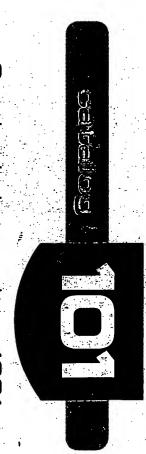
The .375" diameter button on the end of piece #1 and the gasket surface of parts catalogue #642

continued on Page 15

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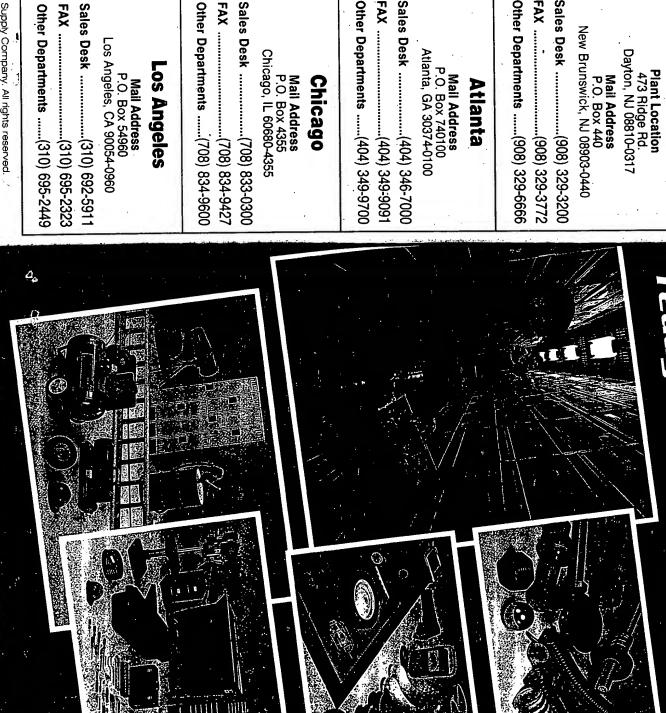
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